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## Body weights of some Ecuadorean birds

by J. R. King

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Thomas (1990) has recently outlined the value of avian body weight data in supplementing the wealth of information held in specimen collections. The present paper details 735 weights for 88 species derived from live trappings of birds caught for ringing at two sites in southern Ecuador:

(1) Rio Mazan Valley, Azuay Province ( $2^{\circ}52'S$ ,  $79^{\circ}7'W$ ). Trapping was undertaken in high-altitude (3050–3350 m) primary and secondary forest, and adjacent early successional grassland, in July–September, 1986 and 1987. Details of the site and procedures are given in King (1989).

(2) Bosque Domono, Macas, Morona-Santiago Province ( $2^{\circ}7'S$ ,  $78^{\circ}8'W$ ). Bosque Domono (1100 m a.s.l.) lies some 20 km due north of the town of Macas, in the extreme south-east corner of Sangay National Park, on the eastern slope of the Andean Cordillera. The area consists entirely of regenerated subtropical forest. Mist-netting took place on nine dates, 24–27 July and 21–25 August 1987.

Weights were taken using 50 g and 300 g Pesola balances, and are given to the nearest 0.1 g for birds under 30 g, otherwise to the nearest 1 g. Trapping periods covered dawn to dusk more or less evenly; thus, any

effects of time of day on individual body weight should be accounted for in the ranges given.

For those species for which weights are given by sex, the determination of sex was generally based upon published plumage characteristics. However, as many species were, or had recently been, breeding (King, unpubl. data), some males could be identified as such if they possessed a marked cloacal protrusion (Svensson 1984, Pyle *et al.* 1987). Further, a number of the species involved appear to show significant sexual size dimorphism in linear measurements (King, unpubl. data), and discriminatory analyses (e.g. Griffiths 1968) can be used to assist sex determination in some of these species; details will be published elsewhere.

Individual weights are listed, except where samples exceed 6, for which the number and the mean  $\pm 1$  standard deviation are given, with the range in parentheses. Species marked with an asterisk are from Bosque Domono, all the remainder are from Mazan. Nomenclature follows Meyer de Schauensee (1970).

*Caprimulgus longirostris*: ♂ 39; ♀ 38

*Phaethornis guy*\*: ♂ 8.1

*Phaethornis superciliosus*\*: unsexed 6.9, 6.9, 7.1, 7.2

*Eutoxeres aquila*\*: unsexed 10.2, 10.4

*Campylopterus falcatus*: ♀ 6.4

*Colibri coruscans*: unsexed 7.4

*Klais guimeti*\*: ♀ 2.9

*Thalurania furcata*\*: unsexed 4.2

*Phlogophilus hemileucurus*\*: unsexed 3.1, 3.5, 3.6, 3.7

*Lafresnaya lafresnayi*: 18 ♂♂ 5.43  $\pm$  0.39 (5.0–6.7); 22 ♀♀ 5.24  $\pm$  0.50 (4.5–6.6)

*Pterophanes cyanopterus*: ♂♂ 9.6, 10.0, 10.6; ♀ 9.1

*Coeligena iris*: 24 unsexed 6.84  $\pm$  0.33 (6.4–7.6); 19 ♂♂ 7.12  $\pm$  0.26 (6.7–7.7); 10 ♀♀ 6.71  $\pm$  0.57 (6.0–8.0)

*Ensifera ensifera*: ♂ 11.2; ♀♀ 11.3, 11.6

*Helianzelus viola*: 8 unsexed 5.98  $\pm$  0.48 (5.2–6.6)

*Eriocnemis vestitus*: unsexed 4.5, 4.6, 4.7, 4.7; ♂♂ 4.4, 4.7, 4.8; ♀♀ 4.4, 4.6

*Eriocnemis luciani*: 12 unsexed 5.95  $\pm$  0.23 (5.6–6.3); 8 ♂♂ 6.18  $\pm$  0.20 (5.8–6.4); 11 ♀♀ 5.81  $\pm$  0.22 (5.4–6.2)

*Lesbia victoriae*: ♀ 5.3

*Lesbia nuna*: unsexed 3.2; ♂♂ 3.6, 3.9; ♀♀ 3.3, 3.3, 3.6, 3.6, 3.6, 4.3

*Rhamphomicron microrhynchum*: ♂ 3.5

*Metallura baroni*: ♂♂ 4.3, 4.3, 4.5; ♀♀ 3.9, 4.0, 4.0, 4.0, 4.1, 5.0

*Metallura williami*: unsexed 4.1, 4.2, 4.2, 4.4; ♂ 5.3

*Metallura tyrianthina*: 22 unsexed 3.90  $\pm$  0.53 (3.2–5.1); 54 ♂♂ 3.87  $\pm$  0.29 (3.5–4.9); 34 ♀♀ 3.56  $\pm$  0.41 (2.7–4.9)

*Acestrura mulsantii*: unsexed 4.0

*Trogon personatus*: ♂ 44

*Picumnus rufiventris*\*: ♂ 14.4

*Veniliornis nigriceps*: ♀ 39

*Dendrocincla fuliginosa*\*: ♂♂ 46, 46; ♀ 51

*Glyphorynchus spirurus*\*: unsexed 13.9

*Synallaxis azarae*: 31 unsexed 16.87  $\pm$  0.87 (15.8–19.3); ♂♂ 16.2, 16.5, 16.5, 19.0; ♀♀ 16.8, 17.4

*Synallaxis gularis*: unsexed 13.0, 14.2

*Pseudocolaptes boissonneautii*: unsexed 49, 51

*Thripadectes flammulatus*: unsexed 46, 53, 55

*Xenops minutus*\*: unsexed 12.7, 13.5, 14.0, 15.5

*Thamnophilus schistaceus*\*: ♀ 21.8

*Dysithamnus mentalis*\*: ♀ 17.0

*Cercomacra serva*\*: ♂ 16.7

*Pithys albifrons*\*: unsexed 21.2  
*Hylophylax naevia*\*: ♂ 13.6; ♀ 14.6  
*Grallaria rufula*: unsexed 37, 40  
*Scytalopus unicolor*: unsexed 17.6, 18.4, 19.6, 20.1  
*Scytalopus latebricola*: unsexed 16.7, 16.9  
*Ampelion rubrocristatus*: unsexed 67  
*Pipra pipra*\*: ♀ 16.1  
*Chloropipo holochlora*\*: unsexed 15.3, 16.6, 16.7, 16.7, 17.0; ♂ 16.4  
*Schiffornis turdinus*\*: unsexed 32  
*Ochthoeca fumicolor*: unsexed 20.1  
*Ochthoeca rufipectoralis*: 11 unsexed  $12.27 \pm 0.73$  (11.3–13.9)  
*Ochthoeca frontalis*: 11 unsexed  $11.40 \pm 0.54$  (10.5–12.1); ♂♂ 10.4, 10.5, 10.8, 11.6, 12.2  
*Myioibius villosus*: ♂♂ 12.5, 13.9  
*Myioborus ornatus*\*: unsexed 13.7, 14.5  
*Anairetes parulus*: 7 unsexed  $6.14 \pm 0.29$  (5.9–6.6)  
*Mecocerculus leucophrus*: ♂ 16.0  
*Mecocerculus stictopterus*: unsexed 10.7  
*Tyranniscus viridiflavus*\*: ♂ 10.0; ♀ 9.6  
*Mionectes olivaceus*\*: unsexed 13.0, 13.2, 15.0, 15.5  
*Corythopis torquata*\*: unsexed 18.5  
*Notiochelidon murina*: 7 unsexed  $12.46 \pm 0.27$  (12.0–12.8); ♂♂ 12.4, 12.6, 12.9, 13.3; ♀♀ 11.9, 12.0, 12.2, 12.4  
*Cinclus leucocephalus*: 7 unsexed  $43.9 \pm 7.6$  (38–59)  
*Cistothorus platensis*: 19 unsexed  $12.52 \pm 0.81$  (11.1–13.8)  
*Troglodytes solstitialis*: 13 unsexed  $12.72 \pm 0.64$  (12.0–14.2); ♂ 12.0  
*Henicorhina leucosticta*\*: 7 unsexed  $15.84 \pm 0.80$  (14.6–16.7)  
*Catharus dryas*\*: unsexed 37, 39, 44  
*Turdus fuscater*: unsexed 139, 175  
*Turdus albicollis*\*: unsexed 55; ♂ 51  
*Myioborus miniatus*\*: unsexed 9.2, 9.5; ♂ 10.2  
*Myioborus melanocephalus*: 24 unsexed  $11.38 \pm 0.52$  (10.3–14.1)  
*Basileuterus nigro cristatus*: 21 unsexed  $13.35 \pm 0.80$  (11.6–14.7); 13 ♂♂ 14.35  $\pm 0.80$  (13.0–15.4); ♀♀ 13.0, 14.5, 17.2  
*Basileuterus coronatus*: 9 unsexed  $16.19 \pm 0.87$  (14.4–17.2); ♂♂ 15.2, 16.0, 16.7  
*Basileuterus fulvicauda*\*: unsexed 14.5, 15.4  
*Coereba flaveola*\*: unsexed 10.2  
*Conirostrum cinereum*: unsexed 10.0, 10.4  
*Diglossa humeralis*: 17 unsexed  $11.75 \pm 1.05$  (10.0–13.6); 15 ♂♂ 13.15  $\pm 0.82$  (11.7–14.5); 40 ♀♀ 11.84  $\pm 0.73$  (10.8–13.7)  
*Diglossa cyanæa*: unsexed 17.8, 18.5; ♂♂ 17.0, 17.0; ♀ 16.4  
*Diglossa sitoides*: ♀ 7.7  
*Euphonia xanthogaster*\*: ♂♂ 14.8, 15.9; ♀♀ 13.4, 14.4, 14.4, 14.5, 14.6, 14.6, 15.6  
*Chlorochrysa calliparaea*\*: ♂ 17.0  
*Tangara vassorii*: ♂ 18.8; ♀♀ 17.1, 17.8  
*Dubusia taeniata*: unsexed 36, 38, 42  
*Thlypopsis ornata*: ♂ 12.1  
*Hemispingus supercilialis*: unsexed 14.6, 14.6, 16.0, 16.8; ♀ 16.0  
*Catamblyrhynchus diadema*: unsexed 18.3  
*Pheucticus chrysopéplus*: ♀♀ 50, 52  
*Catamenia analis*: ♀ 16.6  
*Catamenia inornata*: ♂♂ 12.3, 12.7, 13.4, 14.3, 14.5; 11 ♀♀ 13.41  $\pm 0.54$  (12.6–13.2)  
*Atlapetes rufigularis*: 20 unsexed  $30.4 \pm 2.2$  (26–40)  
*Atlapetes torquatus*: unsexed 45, 45, 46  
*Arremon aurantiirostris*\*: unsexed 25.5, 25.7, 25.9; ♂ 24.5  
*Zonotrichia capensis*: 12 unsexed  $22.88 \pm 1.23$  (21.3–25.4)

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## The type locality of *Halcyon coromanda rufa* Wallace

by G. F. Mees

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*Halcyon rufa* (now *Halcyon coromanda rufa*) was described by Wallace (1863: 338) from "Sula Islands and Celebes". Soon afterwards, Sharpe (1870: text to pl. 57) listed a specimen labelled 'Macassar', which at that time was in Wallace's private collection, as the type of *H. rufa*. On the accompanying plate, this specimen is beautifully illustrated. Wallace's private collection was acquired by the British Museum in 1873 (cf. Sharpe 1906: 258), and in the Museum catalogue this same specimen was again listed as the type (Sharpe 1892: 221). By Warren (1966: 251) it is, perhaps more correctly, referred to as syntype.

As long as birds from Celebes and birds from the Sula Islands were thought to be consubspecific, the matter of the type locality of *H. rufa* was of no practical interest. In 1939, however, Neumann described *H. c. pelingensis* from Peling Island, between Celebes and the Sula Islands. This subspecies was diagnosed as being: "Similar to *Halcyon coromanda rufa* Wallace from Celebes, but much smaller, wing 106–115 mm., as against 120–126 mm. in *H. c. rufa* Wallace. Culmen 53–56 mm., as against 62–67 mm. in *H. c. rufa*. . . . Mr. Kinnear tells me that the type of *H. c. rufa* Wallace from Macassar, Celebes, has a wing-length of 120 mm., therefore 5 mm. more than my largest specimen." Neumann commented that the distribution of *H. c. rufa* (Celebes and the Sula Islands) then seemed rather strange. That is as far as Neumann's published contribution goes.

Peters (1945: 195) unexpectedly changed the type locality of *H. rufa* with the comment: "the type in the British Museum was collected by